





[illegible]

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human; endokine alpha; tumour necrosis factor; TNF; cytokine;
tumour necrosis factor; TNF; cytokine; inflammation; cell proliferation; angiogenesis;
tumour metastasis; apoptosis; sepsis; endothelium.

      US598171-A.
      07-DEC-1999.
      15-AUG-1997: 97US-0912227.
      16-MAY-1996: 96US-0024058.
      (HUMA-) HUMAN GENOME SCI INC.
      X N1 J. Rosen CA, Yu G;
      X WPI: 3000-104608/09.
      X M-PDB: 257314.
      isolated human endokine alpha gene useful as a diagnostic probes and
      primers.
      Cited in: Fig 1. 3pp; English.
      The present sequence represents human endokine alpha which is a member
      of the tumor necrosis factor family of cytokines. Endokine alpha
      of the tumor necrosis factor family can be used in diagnostic and therapeutic
      periods concerning TNF family-related disorders such as cancer, infectious diseases
      associated with immunomodulation, inflammation, cell proliferation,
      angiogenesis, tumour metastasis, apoptosis, sepsis and endothelium.
      Sequence 169 AA:
      Query Match          95.3%; Score 906; TB 31; Length 169;
      Identical Similarity 100.0%; Fract 1.0; Positives 100.0%; Gaps 0;
      Matches 169; Conservative 0; Mismatches 0;
      9 MPLEISRTGQGRSSKSHVCTSVMLTPTFGSGLPFTTFITFLFKPECPKMTQPLSK 68
      1 MPDLSLITGQGRSSKSHVCTSVMLTPTFGSGLPFTTFITFLFKPECPKMTQPLSK 60
      69 WMASSEPCYNNSDWELLESNVLICGVDPANVDNVAFIVATKNGKLTQL 128
      67 WMASSEPCYNNSDWELLESNVLICGVDPANVDNVAFIVATKNGKLTQL 120
      Qy 121 MSKIDNQWETLVKNGCPTDLITPSPHOILNKNTYTGILLARQETS 177
      Dq 121 MSKIDNQWETLVKNGCPTDLITPSPHOILNKNTYTGILLARQETS 169
      Dd 121 MSKIDNQWETLVKNGCPTDLITPSPHOILNKNTYTGILLARQETS 169
      RESULT           5
      P60547
      ID P60547 standard; Protein; 326 AA.
      AC
      CC
      AC P60547:
      XX 24-JUN-1991 (first entry)
      DE Segment 8 clone of the hu/5 rotavirus.
      DX Hu/Australia/5/77 rotavirus; vaccine.
      GS Humay's rotavirus.
      OS WQ8505122-A.
      XX
      XX WQ8505122-A.
      PD 20-APR-1985; 85MO-A000096.

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[illegible]





[illegible]

[illegible]

Query Match 7-89; Score 74.5; DB 18; Length 65;  
Best Local Similarity 32.58; Pos. 9;  
Matches 36; Conservative 20; Attn. 42; Indels 43; Gaps  
30 C5VALLP35SVLITF1QLETAKECNARFGPSKQWASSEPPVWSDM---85  
321 c5vapsplkscvsl---lresctdplk-----hsaavqgkvllkwsal 367  
7 86 -KLTGGLGVLFGVAPN---YNDATFVRLYKINKITDIPKQVGVGT 139  
368 okkxslon---evskaslgshjcsfcteterygmrl--mnskll-----413  
10 YELVQVDTLNLNGVQR 160  
11 |||||  
414 -llrlgrd---sqakkl 428

SUIT 12  
1859  
R41859 standard; protein: 157 AA,  
R41859;  
29-MAR-1994 (first entry)  
Peline TNF- $\alpha$  protein with modified channel-forming activity.  
Tumour Necrosis Factor alpha. TNF- $\alpha$ : target membrane permeability;  
TNF trimer: ion channel; nudes; etc.  
Pellis Cantis.

Key	Location/Qualifiers
Misc-difference 11	/label= Glu, Arg, Cys, Asp, Glu, Asn, Ser, Thr /note= "wild-type channel residue is Lys"
Misc-difference 57	/label= Trp, Thr, Ala, Met, Cys, Phe or Tyr /note= "wild-type channel residue is Leu"
Misc-difference 59	/label= Trp, Ser, Thr, Ala, Met, Cys or Phe /note= "wild-type channel residue is Tyr"
Misc-difference 98	/label= Arg, Cys, Glu, Asp, Glu, Asn, Ser, Thr or His /note= "wild-type channel residue is Lys"
Misc-difference 112	/label= Arg, Cys, Asp, Glu, Asn, Ser, Thr, Glu or His /note= "wild-type channel residue is Lys"
Misc-difference 116	/label= Lys, Arg, Cys, Asp, Glu, Asn, Ser, His

FT		/note= "of: Thr
FT	Misc-difference 119	/label= "wild-type channel residue is Glu"
PT		/label= "Trp, Phe, Ser, Thr, Ala, Met or Cys"
FT	Misc-difference 121	/label= "wild-type channel residue is Tyr"
FT		/label= "Ala, Val, Ser or Thr"
PT	Misc-difference 158	/label= "wild-type channel residue is Gly"
PT		/label= "Trp, Ser, Thr, Ala, Met, Cys, Phe or Tyr"
FT	Misc-difference 167	/note= "wild-type channel residue is Arg"
FT		/label= "Trp, Ser, Thr, Ala, Cys or Tyr"
PT		/note= "wild-type channel residue is Leu"
XX	MO3918148-A	
XX	PD 16-SEP-1993.	
XX	12-MAR-1993:	93KO-GS02475.
PK	12-MAR-1993:	SZUS-OHS7625.
XX	(WISN/) WISNETR B J.	
XX	Warszawski EJ;	
XX	BPI; 1993-303462/38.	
XX	Producing modified tumour necrosis factor, useful for increasing permeability	
PT	tumour necrosis factor channel activity e.g.	
CC	Claim 6: Page 34-35 and 51-53, 72pp: English.	
CC	The sequence of feline TNF-alpha disclosed in Nucleic Acid Research	
CC	31:5564 (1990) is given in the specification	
CC	residues is substituted in which at least one of the amino acid version	
CC	is substituted (the substitution being compatible), the resulting TNF-alpha	
CC	sequence has modified channel activity comparable to the wild type.	
CC	Sequence 157 AA:	
SQ		

Query Match		78%	Score 74,	DB 14;	Length 157;
Nest Local Similarity	34	100%	Pred. No. 1,4;		
Matches	30; Conservative	21;	Mismatches	32; Indels	40; Gaps
a	KNSGKPELTLONGSLYLGVQ---	AFLNPF---	NOVAAPFVRLTKNGCQTITWKS	132	
b	ELIQLTGLSGLYLVYIVYV---	L---	I---	136	
c	42 eldldg klpvsgdllylvylvgsgqsthw	lshlsrflavgtkvlllaia-ks	99		
d	VGGSYLVILVGDTTD---	YENSHOVAKNTNVSGI	167		
e	100 pqrqeqpegakpyppvllylgysrlqlagdrslsteinspayldlaeggav	---	yfgi	154	
f	168 ltl 170				
g	155 lal 157				
ESBLT	13				
W27436					
W27436 standard; Protein; S16 AA.					

W27436;  
27-MAR-1998 (first entry)  
Human CRAF1-b isoform p70del8,9.  
G240 receptor associated factor 1  
G240



DR N-PSDB; 135251.  
 CC **Abstract**  
 CC **PM** Non-isolated CD40 receptor-binding protein was used to develop probes  
 CC **PT** for use as immunodiagnostics and drugs and to treat immune disorders.  
 CC **PT**  
 CC **PS** Example 5, pages 41-43; 65pp; English.  
 CC **CC** A novel human CD40 receptor binding protein (CD40bp) (p99256) has  
 CC **CC** the amino acid sequence deduced from a cDNA clone. A yeast  
 CC **CC** expression vector was constructed containing a yeast  
 CC **CC** signal sequence, a human B-lymphoblastoid cell line (BJ2121) derived  
 CC **CC** cDNA from a human B-lymphoblastoid cell line, and a polyA signal  
 CC **CC** sequence. The recombinant CD40bp can be produced in the  
 CC **CC** secretory or cytoplasmic host cells. The CD40bp can be used in the  
 CC **CC** purification of CD40, and also useful as an immunogen for preparing  
 CC **CC** anti-CD40 antibodies, and can be used in an in vivo assay.

